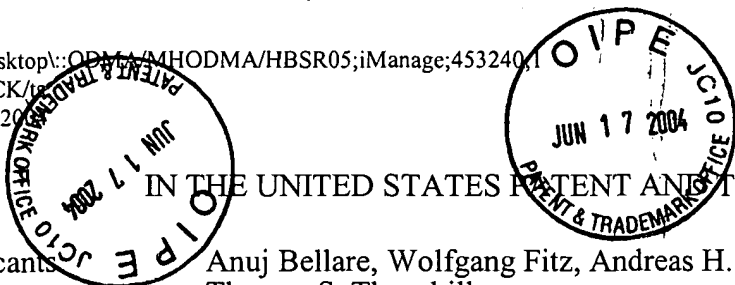


1fw



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Anuj Bellare, Wolfgang Fitz, Andreas H. Gomoll, Richard D. Scott and Thomas S. Thornhill

Application No.: 10/734,652 Group Art Unit: 1714
Filed: December 12, 2003 Examiner: Unknown
Confirmation No.: 8950
Title: NANOCOMPOSITE SURGICAL MATERIALS AND METHOD OF PRODUCING THEM

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
6/15/04	T. Sullivan
Date	Signature
Trisha Sullivan	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

- ☐ under 37 CFR 1.97(i):
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

- ☒ Enclosed herewith is form PTO-1449:

- ☒ Copies of the cited references are enclosed [AL3-AL4, AS7-AU8].

- ☒ Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.

- ☒ Copies of the cited references [AA-AC2, AL-AQ2, AR-AR7] were entered in prior application, U.S. Application No. 09/541,374 (issued as U.S. Patent No. 6,689,823 B1), to which priority under 35 U.S.C. 120 is claimed. The earlier application contains copies of the cited references.

- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

- ☒ The "concise explanation" requirement (non-English references) for reference(s) [AM3-AN3 and AL4] under 37 CFR 1.98(a)(3) is satisfied by:

- ☐ the explanation provided on the attached sheet.
- ☐ the explanation provided in the Specification.
- ☐ submission of the enclosed International Search Report.
- ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
- ☒ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's
Initials

_____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

_____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

_____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

Examiner

Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By



Alice O. Carroll

Registration No.: 33,542

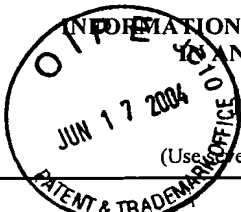
Telephone: (978) 341-0036

Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated:

JUNE 15, 2004

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
		FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
		EXAMINER Unknown		CONFIRMATION NO. 8950	
				GROUP 1714	

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AA	4,500,658	02-19-1985	Fox
	AB	4,791,150	12-13-1988	Braden <i>et al.</i>
	AC	4,373,217	02-15-1983	Draenert
	AD	5,574,075	11-12-1996	Draenert
	AE	5,334,356	08-02-1994	Baldwin <i>et al.</i>
	AF	4,473,665	09-25-1984	Martini-Vvedensky <i>et al.</i>
	AG	4,588,583	05-13-1986	Pietsch <i>et al.</i>
	AH	5,328,262	07-12-1994	Lidgren <i>et al.</i>
	AI	4,735,625	04-05-1988	Davidson
	AJ	5,795,922	08-18-1998	Demian <i>et al.</i>
	AK	5,055,497	10-08-1991	Okada <i>et al.</i>
	AA2	6,020,396	08-01-2000	Jacobs
	AB2	6,013,591	01-11-2000	Ying <i>et al.</i>
	AC2	4,396,476	08-02-1983	Roemer <i>et al.</i>
	AD2	4,239,113	12-16-1980	Gross <i>et al.</i>
	AE2	4,490,497	12-25-1984	Evrard <i>et al.</i>
	AF2	4,617,327	10-14-1986	Podsun
	AG2	5,030,474	07-09-1991	Saita <i>et al.</i>
	AH2	5,797,873	08-25-1998	Franz <i>et al.</i>
	AI2	5,847,046	12-08-1998	Jiang <i>et al.</i>
	AJ2	6,080,801	06-27-2000	Draenert <i>et al.</i>
	AK2	6,197,410 B1	03-06-2001	Vallittu <i>et al.</i>
	AA3	6,203,844 B1	03-20-2001	Park
	AB3	3,156,666	11-10-1964	Pruett
	AC3	3,471,439	10-07-1969	Bixler, <i>et al.</i>
	AD3	4,124,562	11-07-1978	Yui, <i>et al.</i>

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown	CONFIRMATION NO. 8950	GROUP 1714	

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AL	DE 42 29 947 A1	9 Aug. 1992	Germany	X	
	AM	EP 0 853 929 A2	22 Jul. 1998	EPO		
	AN	EP 0 875 456 A1	04 Nov. 1998	EPO		
	AO	EP 0 768 067 A2	16 Apr. 1997	EPO		
	AP	WO 96/07472 A1	14 Mar. 1996	WIPO		
	AQ	EP 0 796 653 A2	24 Sept. 1997	EPO		
	AL2	WO 96/40424	19 Dec. 1996	WIPO		
	AM2	WO 97/18031	22 May 1997	WIPO		
	AN2	WO 97/21485	19 June 1997	WIPO		
	AO2	EP 0 872 223 A1	21 Oct. 1998	EPO		
	AP2	WO 96/11714	25 Apr. 1996	WIPO		
	AQ2	GB 1 532 318	22 Nov. 1976	United Kingdom		
	AL3	EP 1 293 531 A1	19 Mar. 2003	EPO		
	AM3	EP 1 366 774 A1	25 Apr. 2003	EPO		
	AN3	EP 0 041 614 A1	16 Dec. 1981	EPO		
	AO3	EP 0 089 782 A1	28 Sept. 1983	EPO		
	AP3	EP 1 095 984 A1	02 May 2001	EPO		
	AQ3	1 278 413	21 June 1972	United Kingdom		
	AL4	WO 93/25245	23 Dec. 1993	WIPO		

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown	CONFIRMATION NO. 8950	GROUP 1714	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Souheng Wu, E., "A Generalized Criterion for Rubber Toughening: The Critical Matrix Ligament Thickness," <i>J. Appl. Polymer Sci.</i> , 35: 549-561 (1988).
AS	Lewis, G., "Properties of Acrylic Bone Cement: State of the Art Review," <i>J. Biomed. Mater. Res.</i> , 38(2): 155-182 (1997).
AT	Molino, L. N., and Topoleski, L.D.T., "Effect of BaSO ₄ on the Fatigue Crack Propagation Rate of PMMA Bone Cement," <i>J. Biomed. Mater. Res.</i> , 31: 131-137 (1996).
AU	Jacoby, M., "Photonic Crystals: Whole Lotta Holes Prepared by New Procedures, Materials With Arrays of Large Holes May Hasten Development of Optical-based Technologies," <i>C&EN</i> , 11-23 38-43 (1998).
AV	Lewis, G., "Research Directions in Acrylic Bone Cement Studies," <i>BMES Bul.</i> , 20(1): 4-20 (1996).
AW	Wang, J. S., <i>et al.</i> , "Porosity of Bone Cement Reduced by Mixing and Collecting Under Vacuum," <i>Acta Orthop. Scand.</i> , 64(2): 143-146 (1993).
AX	Wixson, R., <i>et al.</i> , "Vacuum Mixing of Acrylic Bone Cement," <i>J. Arthroplasty</i> , 2(2): 141-149 (1987).
AY	Saha, S. and Pal, S., "Mechanical Properties of Bone Cement: A Review," <i>J. Biomed. Mater. Res.</i> , 18: 435-462 (1984).
AZ	Pascual, B., <i>et al.</i> , "New Aspects of the Effect of Size and Size Distribution on the Setting Parameters and Mechanical Properties of Acrylic Bone Cements," <i>Biomaterials</i> , 17(5): 509-516 (1996).
AR2	James, S. P., <i>et al.</i> , "Extensive Porosity at the Cement-Femoral Prosthesis Interface: A Preliminary Study," <i>J. Biomed. Mater. Res.</i> , 27: 71-78 (1993).
AS2	Fumich, R.M. and Gibbons, D. F., "Rate of Mixing and the Strength of Methylmethacrylate Bone Cements," <i>Orthopaedic Rev.</i> , 8(9): 41-44 (1979).
AT2	Bishop, N.E., <i>et al.</i> , "Porosity Reduction in Bone Cement at the Cement-Stem Interface," <i>J. Bone Surg.</i> , 78-B(3): 359-356 (1996).
AU2	Topoleski, L.D., <i>et al.</i> , "Microstructural Pathway of Fracture in Poly(methyl methacrylate) Bone Cement," <i>Biomaterials</i> , 14(15): 1165-1172 (1993).

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown		CONFIRMATION NO. 8950	GROUP 1714

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AV2	Mapleston, P., "Broad Use Spectrum Seen for Microcellular Injection technique," <i>Modern Plastics</i> December(1998). page 31
AW2	Schreurs, B.W., <i>et al</i> "Effects of Preparation Techniques on the Porosity of Acrylic Cements," <i>Acta Orthop Scand</i> 59(4):403-409 (1988).
AX2	Müller-Wille, <i>et al.</i> , "Integrated System for Preparation of Bone Cement and Effects on Cement Quality and Environment," <i>J. Biomed. Mat. Res.</i> , 38(2):135-42 (1997) Summer.
AY2	Knoell, A., <i>et al.</i> , abstract, Ei Compendex®, "Graphite Fiber Reinforced Bone Cement," <i>Ann. Biomed. Eng.</i> , 3(2): 225-229 (1975).
AZ2	Kindt-Larsen, Ture, <i>et al.</i> "Innovations in Acrylic Bone Cement and Application Equipment," <i>J. App. Biomater.</i> , 6:75-83 (1995).
AR3	Fritsch, E. W., "Static and Fatigue Properties of Two New Low-Viscosity PMMA Bone Cements Improved by Vacuum Mixing," <i>J. Biomed. Mat. Res.</i> , 31:451-456 (1996).
AS3	Connelly, T. J., <i>et al.</i> , "The Role of Porosity in the Shrinkage of Acrylic Bone Cement," <i>Trans 13th Mtg. Soc. Biomat</i> , June 2-6, New York, NY 1987.
AT3	Haas, S. S., <i>et al.</i> , "A Characterization of Polymethylmethacrylate Bone Cement," <i>J. Bone Joint Surg.</i> , 57-A:380-391 (1975).
AU3	Sabokbar, A., <i>et al.</i> , abstract Medline®, "Radio-Opaque Agents in Bone Cement Increase Bone Resorption," <i>J. Bone Joint Surg. Br.</i> , 79(1):129-134 (1997).
AV3	Lazarus, M.D., <i>et al.</i> , abstract Medline®, "Comparison of the Inflammatory Response to Particulate Polymethylmethacrylate Debris With and Without Barium Sulfate," <i>J. Orthop Res., U.S.</i> , 12(4):532-541 (1994).
AW3	Topoleski, L.D., <i>et al.</i> , abstract Medline®, "A Fractographic Analysis of <i>in vivo</i> Poly(methyl Methacrylate) Bone Cement Failure Mechanisms," <i>J. Biomed Mater Res.</i> , 24(2):135-154 (1990).
AX3	Nakahara, M., abstract Medline®, "An Objective Examination for Painful Hip After Total Hip Arthroplasty," <i>Acta Orthop. Scand.</i> 53(4):591-600 (1982).

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown	CONFIRMATION NO. 8950	GROUP 1714	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AY3	Rudigier, J., <i>et al.</i> , abstract Medline®, "Release and Diffusion of Methylmethacrylic Monomers After the Implantation of Self Curing Bone Cements," <i>Unfallchirurgie</i> , 7(3):132-137 (1981).	
AZ3	Beaumont, P.W., abstract Medline®, "Fracture Processes in Acrylic Bone Cement Containing Barium Sulphate Dispersions," <i>J. Biomed Eng.</i> , 1(3): 147-152 (1979).	
AR4	Rudigier, J., <i>et al.</i> , abstract Medline®, "Biological Effect of Bariumsulfate as Contrast Material in Bone Cement," 86(3):279-290 (1976).	
AS4	Friis, E.A., <i>et al.</i> , abstract Ei Compendex®, "Fracture Toughness of Surface-Treated Carbon Fiber Reinforced Composite Bone Cement," <i>Transactions of the Annual Meeting of the Society For Biomaterials</i> , St. Louis Park, MN, USA, Pg. 913. (1996)	
AT4	Lerouge, S., <i>et al.</i> , abstract Medline®, "Characterization of <i>in vivo</i> Wear Debris From Ceramic-Ceramic Total Hip Arthroplasties," <i>J. Biomed. Mater Res.</i> , 32(4):627-633 (1996).	
AU4	Yoshida, K., and Greener, E.H., abstract Medline®, "Effects of Coupling Agents on Mechanical Properties of Metal Oxide-Polymethacrylate Composites," <i>J. Dent.</i> , 22(1):57-62 (1994).	
AV4	Hopf, C., <i>et al.</i> , abstract Medline®, "Comparative Studies on the Radioactivity of Bone Cements Containing X-Ray Contrast Media and of the Contrast Media," <i>Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr</i> , 152(5):601-200 (1990).	
AW4	Streicher, R.M., <i>et al.</i> , abstract Medline®, "New Surface Modification for Ti-6Al-7Nb Alloy: Oxygen Diffusion Hardening (ODH)," <i>Biomaterials</i> , 12(2):125-129 (1991).	
AX4	Hopf, W., <i>et al.</i> , abstract Medline®, "About Radioactivity in Some PMMA Bone Cements," <i>Acta Orthop. Belg.</i> , 56(2):443-444 (1990).	
AY4	Gross, U., and Strunz, V., abstract Medline®, "The Interface of Various Glasses and Glass Ceramics With a Bony Implantation Bed," <i>J. Biomed. Mater Res.</i> , 19(3):251-271 (1985).	
AZ4	Bhambri, S.K., and Gilbertson, L.N., abstract Medline®, "Micromechanisms of Fatigue Crack Initiation and Propagation in Bone Cements," <i>J. Biomed. Mater Res.</i> , 29(2):233-237 (1995).	
AR5	Owen, A.B., and Beaumont, P.W., abstract Medline®, "Fracture Behaviour of Commercial Surgical Acrylic Bone Cements," <i>J. Biomed Eng.</i> , 1(4):277-280 (1979).	

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown		CONFIRMATION NO. 8950	GROUP 1714

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AS5	Freitag, T.A., and Cannon, S.L., abstract Medline®, "Fracture Characteristics of Acrylic Bone Cements, I. Fracture Toughness," <i>J. Biomed. Mater. Res.</i> , 10(5):805-828 (1976).
AT5	Holland, B.T., et al., "Synthesis of Macroporous Minerals With Highly Ordered Three-dimensional Arrays of Spheroidal Voids," <i>Science</i> , 81:538-540.
AU5	Gilbert, J.L., and Ney, D.E., abstract, RAPRA Rubber & Plastics, "Self-Reinforced Composite PMMA: Static and Fatigue Properties," <i>Biomaterials</i> , 16(14):1043-1055 (1995).
AV5	Pourdeyehimi, B., et al., abstract, Ei Compendex®, "Comparison of Mechanical Properties of Discontinuous Kevlar 29 Fibre Reinforced Bone and Dental Cements," <i>J. Mat. Sci.</i> , 21(12):4468-4474 (1986).
AW5	James, S.P., et al., "A Fractographic Investigation of PMMA Bone Cement Focusing on the Relationship Between Porosity Reduction and Increased Fatigue Life," <i>J. Biomed. Mater. Res.</i> , 26:651-652 (1992).
AX5	Jasty, M., et al., "The Initiation of Failure in Cemented Femoral Components of Hip Arthroplasties," <i>J. Bone Joint Surg.</i> , 73(B):551 (1991).
AY5	Pourdeyehimi, B., et al., "Elastic and Ultimate Properties of Acrylic Bone Cement Reinforced with Ultra-High-Molecular-Weight Polyethylene," <i>J. Biomed. Materials Res.</i> , 23(1): 63-80 (1989).
AZ5	Burke, D.W., et al., "Centrifugation as a Method of Improving Tensile and Fatigue Properties of Acrylic Bone Cement," <i>J. Bone Joint Surg.</i> , 66(A):1265-1273 (1984).
AR6	Davies, J.P., et al., "The Effect of Centrifuging Bone Cement," <i>J. Bone Joint Surg.</i> , 71(B):39-42 (1989).
AS6	Davies, J.P., et al., "Comparison of the Mechanical Properties of Simplex P, Zimmer Regular, and LVC Bone Cements," <i>J. Biomed. Mater. Res.</i> , 21:719-730 (1987).
AT6	Topoleski, L.D., et al., "The Effects of Centrifugation and Titanium Fiber Reinforcement on Fatigue Failure Mechanisms in Poly(methyl methacrylate) Bone Cement," <i>J. Biomed. Mater. Res.</i> , 29:299-307 (1995).
AU6	Lewis, G, et al., "Effect of Mixing Method on Selected Properties of Acrylic Bone Cement," <i>J. Biomed. Mater. Res.</i> , 38:221-227 (1997).

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO:1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown		CONFIRMATION NO. 8950	GROUP 1714

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AV6	Trieu, H.H., et al., "A Comparative Study of Bone Cement Preparation Using a New Centrifugation Mixing Technique," <i>The 20th Annual Meeting of the Society for Biomaterials</i> , April 5-9, Boston, Massachusetts (1994).
AW6	Treharne, R.W., and Brown, N., abstract Medline®, "Factors Influencing the Creep Behavior of Poly(Methyl Methacrylate) Cements," <i>J. Biomed Mater. Res.</i> , 9(4): 81-88 (1975).
AX6	Imhof, A., and Pine, D.J., "Ordered Macroporous Materials by Emulsion Templating," <i>Nature</i> , 389(30): 948-951 (1997).
AY6	Pedley, R.B., et al., abstract Medline®, "Identification of Acrylic Cement Particles in Tissues," <i>Ann. Biomed. Eng.</i> 7(3-4):319-328 (1979).
AZ6	Demian, et al., "Regulatory Perspective on Characterization and Testing of Orthopedic Bone Cement," <i>Biomaterials</i> , 19:1607-1618 (1998).
AR7	Wu, S., "A Generalized Criterion for Rubber Toughening: The Critical Matrix Ligament Thickness," <i>J. Appl. Polym. Sci.</i> , 35:549-561 (1988).
AS7	Charnley, J., "Anchorage Of The Femoral Head Prosthesis To The Shaft of The Femur," <i>The J. of Bone and Joint Surgery</i> , 42-B:28-30 (1960)
AT7	Friis, E. A., et al., "Fracture Toughness Of Vacuum Mixed PMMA Bone Cement," <i>Transactions, Nineteenth Annual Meeting of the Society For Biomaterials, April 28 - May 2, 1993</i> , 16:301 (1993)
AU7	Skinner, H. B., et al., "Density Gradients In Bone Cement After Centrifugation," <i>Transactions, 31st Annual Meeting Orthopaedic Research Society, Las Vegas, Nevada, January 21-24, 1985</i> , 10:243 (1985)
AV7	Gharpuray, V. M., et al., "Cracks Emanating From Circular Voids or Elastic Inclusions in PMMA Near a Bone-Implant Interface," <i>Transactions Of The ASME, J. Of Biomech. Engineer.</i> , 112(1):22-28 (1990)
AW7	Kurtz, S. M., et al., "Advances in the Processing, Sterilization, and crosslinking of ultra-high molecular weight polyethylene for total joint arthroplasty," <i>Biomaterials</i> , 20(18):1659-1688 (1999)
AX7	Vila, M. M., et al., "Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified With Acrylonitrile-Butadiene-Styrene Particles: I. Fracture Toughness," <i>J. Of Biomed. Materials Research</i> , 48:121-127 (1999)

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009		APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003	
	EXAMINER Unknown	CONFIRMATION NO. 8950	GROUP 1714	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AY7	Vila, M. M., <i>et al.</i> , "Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified With Acrylonitrile-Butadiene-Styrene Particles: Part II. Fatigue Crack Propagation," <i>Of Biomed. Materials Research</i> , 48:128-134 (1999)
AZ7	Murakami, A., <i>et al.</i> , "Rubber-modified Bone Cement," <i>J. Of Materials Science</i> , 23(6):2029-2036 (1988)
AR8	Puckett, A. D., <i>et al.</i> , "Improved Orthopaedic Bone Cement Formulations Based On Rubber Toughening," <i>Critical Reviews In Biomed. Engineer.</i> , 28(3&4): 457-461 (2000)
AS8	Kennedy, J. P., <i>et al.</i> , "Polyisobutylene-toughened poly(methyl methacrylate): III. PMMA- <i>l</i> -PIB Networks As Bone Cements," <i>J. Of Biomaterials Sci., Polymer Edition</i> , 4(5):445-449 (1993)
AT8	Moseley, J. P., <i>et al.</i> , "The Development and Characterization Of A Fracture-Toughened Acrylic For Luting Total Joint Arthroplasties," <i>J. Of Biomed. Materials Research</i> , 47(4):529-536 (1999)
AU8	Kim, H. Y., <i>et al.</i> , "Improvement Of Fatigue Properties of Poly(methyl methacrylate) Bone Cement By Means Of Plasma Surface Treatment Of Fillers," <i>J. Of Biomed. Materials Research</i> , 48(2):135-142 (1999)

EXAMINER	DATE CONSIDERED
----------	-----------------